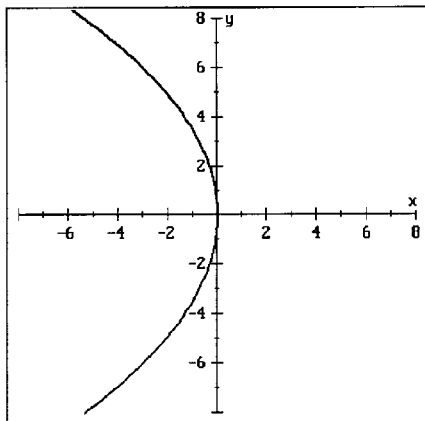


- ⑨ The focus is  $F(-3, 0)$  and the vertex is  $V(0, 0)$ . The distance between these points is 3. Since the focus is left of the vertex, the parabola opens to the left and so  $p = -3$ . The line passing through  $F$  and  $V$  is horizontal, so the parabola has a horizontal axis. Its equation is given by  $y^2 = 4px$  or  $y^2 = -12x$ . The graph of  $x = -\frac{1}{12}y^2$  is shown in *Figure 9*.



*Figure 9*